

Customer No. 24498
Attorney Docket No. PF020113
Final Office Action Date: 11/19/2009

IN THE CLAIMS:

1. (Currently amended) Method for connecting a device not having wireless communication capability to a wireless network; characterized, at the level of a bridge device comprising means for interfacing with the wireless network comprising a wireless access point, by the steps of:

- detecting a connection between the device and the bridge device;
- determining a MAC address for the device and for the bridge device; and
- separately registering to the wireless access point, with their respective

MAC addresses, the device and the bridge device as wireless devices on the wireless network, wherein the bridge device associates twice with the access point, once for each of said MAC addresses, so that said ~~wireless~~ devices connected to said wireless network appear as wireless stations to the access point, ~~wherein the registration is performed through an authentication and an association process of the type as defined by the IEEE 802.11 standard.~~

2. (Cancelled)

3. (Original) Method according to claim 1, further comprising the step of having the bridge device monitor traffic on the wireless network for the device.

4. (Previously presented) Method according to claim 1, further comprising the step of programming packet filters for packets having as destination address the MAC address of the device, and upon detection of such a packet, acknowledging receipt of said packet in place of the device.

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5. (Previously presented) Method according to claim 3, further comprising at least one of the following steps:

- forwarding all multicast packets detected on the wireless network from the bridge device to the connected device;
- forwarding all broadcast packets detected on the wireless network from the bridge device to the connected device;
- forwarding unicast packets on the wireless network having as destination address the MAC address of the connected device to that device.

6. (Previously presented) Method according to claim 4, further comprising at least one of the following steps:

- forwarding all multicast packets detected on the wireless network from the bridge device to the connected device;
- forwarding all broadcast packets detected on the wireless network from the bridge device to the connected device;
- forwarding unicast packets on the wireless network having as destination address the MAC address of the connected device to that device.

7. (Original) Method according to claim 1, where the connection between the device and the bridge device is an Ethernet connection, and wherein the step of detecting the connection comprises monitoring packets on the Ethernet connection for detecting a previously unknown source address of an Ethernet device.

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8. (Original) Method according to claim 3, where the connection between the device and the bridge device is an Ethernet connection, and wherein the step of detecting the connection comprises monitoring packets on the Ethernet connection for detecting a previously unknown source address of an Ethernet device

9. (Original) Method according to claim 5, where the connection between the device and the bridge device is an Ethernet connection, and wherein the step of detecting the connection comprises monitoring packets on the Ethernet connection for detecting a previously unknown source address of an Ethernet device

10. (Previously presented) Method according to claim 1, wherein the wireless network is of the IEEE 802.11 type, further comprising the step of maintaining a single management information base for both the bridge device and the connected device.

11. (Original) Method according to claim 3, wherein the wireless network is of the IEEE 802.11 type, further comprising the step of maintaining a single management information base for both the bridge device and the connected device.

12. (Original) Method according to claim 4, wherein the wireless network is of the IEEE 802.11 type, further comprising the step of maintaining a single management information base for both the bridge device and the connected device.

13. (Original) Method according to claim 5, wherein the wireless network is

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of the IEEE 802.11 type, further comprising the step of maintaining a single management information base for both the bridge device and the connected device.

14. (Currently amended) Bridge device comprising means for communication on a wireless network and for connection of a first device not having wireless communication capability to a wireless network comprising a wireless access point, said bridge device comprising:

- means for determining a MAC address of the first device and of the bridge device;
- means for carrying out two separate device registrations, one for the bridge device, and one for the first device, for separately registering the first device and the bridge device to the wireless access point as wireless devices on the wireless network using their respective MAC addresses, wherein the bridge device associates twice with the access point, once for each of said MAC addresses so that said ~~wireless~~ devices connected to said wireless network appear as wireless stations to the access point, ~~wherein the registration is performed through an authentication and an association process of the type as defined by the IEEE 802.11 standard.~~

15. (Currently amended) Method for connecting a device not having wireless communication capability to a wireless network; characterized, at the level of a bridge device adapted to interface with a wireless access point on the wireless network, by the steps of:

- detecting a connection between the device and the bridge device;

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- determining a MAC address for the device and for the bridge device; and
- separately registering as wireless devices, with their respective MAC addresses, the device and the bridge device to the wireless access point on the wireless network, wherein the bridge device associates twice with the access point, once for each of said MAC addresses so that said wireless devices connected to said wireless network appear as wireless stations to the access point, ~~wherein the registration is performed through an authentication process of the type as defined by the IEEE 802.11 standard.~~

16. (Currently amended) Bridge device adapted for communication with a wireless access point on a wireless network and for connection of a first device not having wireless communication capability, said bridge device comprising:

- means for determining a MAC address of the first device and of the bridge device;
- means for carrying out two separate device registrations, one for the bridge device, and one for the first device, for separately registering the bridge device and the first device to the wireless access point as wireless devices on the wireless network using respective MAC addresses of the bridge device and the first device, wherein the bridge device associates twice with the access point, once for each of said MAC addresses so that said wireless devices connected to said wireless network appear as wireless stations to the access point, ~~wherein the registration is performed through an authentication process of the type as defined by the IEEE 802.11 standard.~~